A EIENWARE® M15x COMPREHENSIVE SPECIFICATIONS

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Model: P08G Type: P08G001 September 2009

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COMPREHENSIVE SPECIFICATIONS

Computer Model			
Alienware M15x			
Dimensions			
Height	48.7 mm (1.92 inches) - Front and Back		
Width	377.93 mm (14.88 inches)		
Depth	308.51 mm (12.15 inches)		
Weight with 6-cell battery (starting at)	4.08 kg (9.00 lb)		
(Starting at)	NOTE : The weight of your laptop will vary depending on the configuration ordered and the manufacturing variability.		
Processor and System Chipset			
Processor	Intel® Core™ i7		
L2 Cache	256 KB		

up to 8 MB

to 1333MHz

Mobile Intel PM55

one or two 64-bit channels of DDR3 memory up

133 MHz

L3 Cache

Bus clock

System chipset

SDRAM bus width

Processor	and	System	Chipset

Processor address bus width	32 bits
Processor data width	64 bits
BIOS EPROM	16 Mbit
Graphics bus	PCIe x16 bus supporting x16 PCIe MXM 3.0 graphics cards
PCI bus	32 bits
Memory	

Memory

Connectors	two internally-accessible SODIMM sockets
Capacities	1 GB, 2 GB, and 4 GB modules
Memory types	1067 MHz and 1333 MHz DDR3
Memory configurations possible	2 GB, 3 GB, 4 GB, and 8 GB

ExpressCard		Ports and Connectors	
Interface	supports PCIe and USB 2.0	IEEE 1394 A	one 4-pin serial connector
Connector	one 26-pin ExpressCard slot (54 mm)	Network adapter	one RJ45 connector 10/100/1000 Mbps
Cards supported	ExpressCard/34 (34 mm) ExpressCard/54 (54 mm)	USB	three 4-pin USB 2.0-compliant connectors, including one through eSATA/USB combo connector
IEEE 1394/Media Card		eSATA	one through eSATA/USB combo connector
IEEE 1394/Media Card controller	Ricoh R5C833	VGA	one 15-hole connector
IEEE 1394 interface compliant with standard IEE1394 specification Media Card formats supported Secure Digital (SD) memory compliant with standard IEE1394 specification Secure Digital (SD) memory compliant with standard IEE1394 specification Secure Digital (SD) memory compliant with standard IEE1394 specification Secure Digital (SD) memory compliant with standard IEE1394 specification	compliant with standard IFF1394a-2000	DisplayPort	one 20-pin connector
		Audio	one microphone connector, two stereo headphone/speaker connectors
	 Secure Digital Input/Output (SDIO) card Multi Media Card (MMC) Memory Stick Memory Stick PRO xD-Picture Card (type - M and type - H) 	ExpressCard	one ExpressCard/54 connector
		8-in-1 Media Card Reader	one combo connector
		Communications	
		Network adapter	10/100/1000 Mbps Ethernet LAN on system board
		Wireless	 WLAN Mini-Card (Half Mini-Card slot) WPAN, Bluetooth® card (Full Mini-Card slot)

Video		Camera	
LCD interface	Low Voltage Differential Signaling (LVDS)	Pixel	2.0 megapixel
External display support	VGA and DisplayPort	Video resolution	320 x 240 - 1600 x 1200 (640 x 480 at 30 fps)
Video cards	MXM 3.0 Type B compliant cards with individual power budget of 35W and 65W	Diagonal viewing angle	66°
		Optical-Drive Storage	
Audio		Interface	SATA
Type	High-Definition 5.1 Surround Sound Audio	Туре	slot-load drive
Controller	IDT 92HD83	Drives supported	Blu-ray Disc™ combo, Blu-ray Disc Writer, or
Stereo conversion	24-bit (analog-to-digital and digital-to-analog)	25555665.554	DVD+/-RW
Speaker	dual 8-ohms speakers in both the left and right speaker assembly	Hard-Drive Storage	
Internal speaker amplifier	up to 2 W per channel; up to 4 W total power	Interface	SATA
Internal microphone support	dual digital-array microphones in the display	Number of hard drives	one
	ort dual digital-array microphones in the display assembly	Type	standard portable and solid-state hard-drives
Volume controls	program menus and media control buttons	,	·
Audio connectors	two audio output/headphone connectors and one audio input/microphone connector		
	The audio input/microphone connector also functions as an output connector in a 5.1-channel surround-sound speaker setup		ce.

Display		Battery		
Type (WLED) • 15.6 inch HD+ (1600 x 900) • 15.6 inch FHD (1920 x 1080)		Type and dimensions 6-cell "smart" lithium ion (57 Whr)		
Refresh Rate Operating angle Pixel pitch Controls	60 Hz 0° (closed) to 140° 0.2550 mm brightness can be controlled through keyboard	Depth Height Width Weight	53.8 mm (2.12 inches) 21.3 mm (0.84 inches) 213 mm (8.39 inches) 0.33 kg (0.72 lb)	
Keyboard (Backlit)	shortcuts	9-cell "smart" lithium ion (86 Depth	Whr) (optional) 53.8 mm (2.12 inches)	
Layouts	U.S. and Canada; Europe; Japan	Height	36.9 mm (1.45 inches)	
Backlight color	RGB; colors can be changed by invoking the AlienFX® application in the Alienware Command Center. For details, see your <i>Mobile Manual</i>	Width Weight Voltage	330 mm (12.99 inches) 0.5 kg (1.1 lb) 12.6 VDC	
Touch pad		Operating time	Battery operating time varies depending	
X/Y position resolution (graphics table mode)	240 cpi		on operating conditions and can be significantly reduced under certain power-intensive conditions	
Width Height	71.7-mm (2.8-inches) sensor-active area 34.0-mm (1.3-inches) rectangle	Life span (approximate)	300 discharge/charge cycles	

	AC Adapter	
	Dimensions:	
0° to 50°C (32° to 122°F)	Height	25.4 mm (1.0 inches)
–20° to 65°C (–4° to 149°F)	Width	154.7 mm (6.1 inches)
CR-2032	Length	25.4 mm (1.0 inches)
CIV 2002	Weight (without AC power cord)	0.52 kg (1.14 lb)
	Temperature range:	
150 W	Operating	0° to 35°C (32° to 95°F)
100 - 240 VAC	Storage	–40° to 70°C (–40° to 158°F)
2.5 A	Connector types:	
50 - 60 Hz	DC connector	3 pin, 7.4 mm plug
7.7 A (continuous)	AC connector	3 pin - C13
150 W		
19.5 VDC		
	-20° to 65°C (-4° to 149°F) CR-2032 150 W 100 - 240 VAC 2.5 A 50 - 60 Hz 7.7 A (continuous) 150 W	Dimensions: O° to 50°C (32° to 122°F) -20° to 65°C (-4° to 149°F) CR-2032 Weight (without AC power cord) Temperature range: Operating 100 - 240 VAC 2.5 A Connector types: 50 - 60 Hz 7.7 A (continuous) 150 W Dimensions: Height Width Length Weight (without AC power cord) Temperature range: Operating Storage Connector types: AC connector AC connector

Computer Environment

Temperature range:

Operating 0° to 35°C (32° to 95°F)

Storage -40° to 65°C (-40° to 149°F)

Relative humidity (maximum):

Operating 10% to 90% (non-condensing) Storage 10% to 95% (non-condensing)

Maximum vibration (using a random vibration spectrum that simulates user environment):

Operating 0.66 GRMS Storage 1.3 GRMS

Maximum shock (Measured with hard drive in operating status and a 2-ms half-sine pulse for operating. Also measured with hard drive in head-parked position and a 2-ms halfsine pluse for storage):

Operating 110 G Storage 160 G

Altitude (maximum):

Operating -15.2 to 3048 m (-50 to 10,000 ft)
Storage -15.2 to 10,668 m (-50 to 35,000 ft)

Airborne contaminant level G2 or lower as defined by ISA-S71.04-1985